

PRAXAIR SURFACE TECHNOLOGIES INC -- NI-115, WELDING POWDER -- 3439-01-426-3168

===== Product Identification =====

Product ID:NI-115, WELDING POWDER

MSDS Date:07/13/1995

FSC:3439

NIIN:01-426-3168

Status Code:A

MSDS Number: CJQHQ

=== Responsible Party ===

Company Name:PRAXAIR SURFACE TECHNOLOGIES INC

Address:1555 MAIN STREET

City:INDIANAPOLIS

State:IN

ZIP:46224-3283

Country:US

Info Phone Num:317-240

-2650

Emergency Phone Num:317-240-2209

Resp. Party Other MSDS Num.:PRODUCT CODE:036015-05

Preparer's Name:MICHELLE ALEXANDER

Chemtrec Ind/Phone:(800)424-9300

CAGE:0FGH2

=== Contractor Identification ===

Company Name:PRAXAIR SURFACE TECHNOLOGIES INC

Address:1555 MAIN STREET

Box:City:INDIANAPOLIS

State:IN

ZIP:46224-3283

Country:US

Phone:317-240-2650

CAGE:0FGH2

Company Name:STARGHILL TECHNOLOGIES CORP

Address:3850 OAKMAN BLVD

Box:City:DETROIT

State:MI

ZIP:48204-1119

Country:US

Phone:313-933-4141

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===== Composition/Information on Ingredients =====

Ingred Name:NICKEL
CAS:7440-02-0
RTECS #:QR5950000
> Wt:75.
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3

Ingred Name:CARBON
CAS:7440-44-0
RTECS #:FF5250000
Minumum % Wt:5.
Maxumum % Wt:20.
OSHA PEL:10 MG/M3
ACGIH TLV:2.5 MG/M3

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IAR
C:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE: EYES: MAY CAUSE IRRITATION.
SKIN CONTACT:MAY CAUSE ALLERGIC DERMATITIS, PAPULAR FORMATION,
ULCERS, DRY AND SCALY SKIN, FEVER. SKIN ABSORPTION: NO EVIDENCE OF
ADVERSE EFFECTS. INHALATION: MAY CAUSE RESPIRATORY TRACT
IRRITATION, WITH CHEST PAIN, VOMITNG, DIARRHEA, BURNING SENSATION,
AND CENTRAL NERVOUS SYSTEM DEPRESSION. MAY ALSO CAUSE INTERSTITIAL
PNEUMONITIS AND SENSITIZATION OF THE RESPIRATORY TRACT. INGESTION:

MAY CAUSE NAUSEA, ABDOMINAL PAIN, VOMITING, DIARRHEA, CENTRAL
NERVOUS SYSTEM DEPRESSION, AND BURNING SENSATION. CHRONIC: EYES:
DAMAGE. SKIN: AFFECT WHOLE BODY WITH LESIONS, SORENESS, ITCHING.
INHALATION: EMPHYSEMA.

Explanation of Carcinogenicity:NICKEL HAS BEEN DETERMINED TO CAUSE
CANCER IN EXPERIMENTAL ANIMALS (IARC, NTP). NICKEL IS LISTED AS A
PROBABLE HUMAN CARCINOGEN.

Effects of Overexposure:EYES: IRRITATION, REDNESS, EXCESS REDNESS OF
CONJUNCTIVA, CORNEAL DAMAGE.

SKIN: DERMATITIS, REDNESS, PAPULAR FORMATION, ULCERS, DRY AND SCALY SKIN, FEVER. INHALATION: RESPIRATORY TRACT IRRITATION, CHEST PAIN, DIARRHEA, BURNING SENSATION, CNS DEPRESSION, INTERSTITIAL PNEUMONITIS, EMPHYSEMA, SENSITIZATION OF RESPIRATORY TRACT. INGESTION: NAUSEA, ABDOMINAL PAIN, VOMITING, DIARRHEA, CENTRAL NERVOUS SYSTEM DEPRESSION, BURNING SENSATION. CHRONIC ECZEMA/NEURODERMATIS FROM NICKEL DOES REQUIRE CONTINUOUS METAL CONTACT.

Medical Condition Aggravated by Exposure:

BREATHING OF DUST MAY AGGRAVATE

ASTHMA AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE. MAY ALSO AGGRAVATE AN EXISTING DERMATITIS.

===== First Aid Measures =====

First Aid: EYES: FLUSH WITH PLENTY OF WATER. IF DISCOMFORT PERSISTS, GET MEDICAL ATTENTION, PREFERABLY AN OPHTHALMOLOGIST. SKIN: WASH THOROUGHLY WITH SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. OXYGEN MAY BE GIVEN IF NE

CESSARY. CALL A PHYSICIAN. INGESTION: GIVE AT LEAST 2 GLASSES OF MILK OR WATER. INDUCE VOMITING, UNLESS PATIENT IS UNCONSCIOUS. CALL A PHYSICIAN. NOTES TO PHYSICIAN: THE HAZARDS OF THIS MATERIAL ARE MAINLY DUE TO ITS SENSITIZING AND MILD IRRITATING PROPERTIES. THERE IS NO SPECIFIC ANTIDOTE.

===== Fire Fighting Measures =====

Flash Point: NONE

Upper Limits: 0.00%

Extinguishing Media: USE DRY POWDER METAL EXTINGUISHING MATERIAL TO EXTINGUISH

TAL FIRES. USE APPROPRIATE EXTINGUISHER TO EXTINGUISH MATERIALS THAT MAY BE IGNITED BY THE THERMAL SPRAY FLAME.

Fire Fighting Procedures: COMPLY WITH ANSI Z49.1 SAFETY IN WELDING AND CUTTING, NFPA 51B STANDARD FOR FIRE PREVENTION IN USE OF CUTTING AND WELDING PROCESSES. NFPA 51 OXYGEN-FUEL GAS SYSTEMS FOR WELDING AND CUTTING, AND NFPA 58 STANDARD FOR THE STORAGE AND HANDLING OF LIQUIDIFIED PETROLEUM GASES.

Unusual Fire/Explosion Hazard: AIRBORNE DUST PARTICLES, ESPECIALLY METAL

DUST, AND ACCUMULATION OF SUCH SHOULD BE TREATED AS EXPLOSIVES. TO MINIMIZE DANGER FROM DUST EXPLOSIONS, ADEQUATE VENTILATION SHOULD BE PROVIDED TO SPARY BOOT H IN ACCORDANCE WITH AMERICAN WELDING SOCIETY PUBLICATION AWS2.1-73, AND ACGIH PUBLICATION "INDUSTRIAL VENTILATION".

===== Accidental Release Measures =====

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT TO PROTECT AGAINST HAZARDS AND DISPOSE OF PER WASTE DISPOSAL METHOD.

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===== Handling and Storage =====

Handling and Storage Precautions:CAUTION: WHEN THERMAL SPRAYING; ELECTRICITY CAN CAUSE FATAL SHOCK. ARC RAYS CAN BURN EYES AND SKIN. WEAR RECOMMENDED EYE AND BODY PROTECTION. FUMES, GAS, AND DUST CAN HARM YOUR HEALTH. PROVIDE ENOUGH VENTILATION AND WEAR RESPIRATOR. Other Precautions:ALWAYS SPRAY WITH ENOUGH VENTILATION. SPARKS DURING SPRAYING CAN BE A SOURCE OF IGNITION OF COMBUSTIBLE MATERIALS. PREVENT FIRES. REFER TO NFPA 51B "CUTTING AND WELDING PROCESSES".

===== Exposure Controls/Personal Protection =====

Respiratory Protection:DEPENDS UPON SPECIFIC USE, CONDITION, AND LOCATION. IF THERE IS DUSTINESS, WEAR RESPIRATOR SELECTED PER OSHA 1910.134, AND OSHA 29 CFR 1910.252 AND ANSI Z49.1. Ventilation:LOCAL DUST PICK UP AND VENTILATION RECOMMENDED. Protective Gloves:NOT REQUIRED. Eye Protection:WHEN DUSTY USE GOGGLES PER OSHA 1910.13. Other Protective Equipment:SEE ANSI Z49.1, AN SI Z87.1, ANSI Z88.2 FOR HELMETS, FACE SHIELDS AND GOGGLES. Work Hygienic Practices:NONE PROVIDED BY MFR. Supplemental Safety and Health NONE PROVIDED BY MFR.

===== Physical/Chemical Properties =====

HCC:N1
Boiling Pt:B.P. Text:NONE
Spec Gravity:2.4 (WATER = 1)
Evaporation Rate & Reference:NON VOLATILE
Appearance and Odor:GRAY POWDER.
Percent Volatiles by Volume:0

===== Stability and Reactivity Data =====

Stability Indicator/Mater

ials to Avoid: YES

NONE KNOWN.

Stability Condition to Avoid: NONE KNOWN.

Hazardous Decomposition Products: WHEN THERMAL SPRAYING, DECOMPOSITION PRODUCTS VARY WITH CONDITIONS. DECOMPOSITION PRODUCTS OF NORMAL OPERATION FROM THIS SPRAY POWDER INCLUDE OXIDES, SUB-OXIDES, COMPLEX OXIDES OF THE POWDERED METALS.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

===== Disposal Considerations =====

Waste Disposal Methods: DISPOSE OF WASTE PER LOCAL, STATE, AND FEDERAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information: NOT REGULATED. PER MSDS: SHIPPING NAME: METAL ALLOY POWDER NOI ITEM 136500 SUB 1. NO UN NUMBER.

===== Regulatory Information =====

SARA Title III Information: SECTION 313: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW

ACT OF 1986 AND OF CFR 372: CAS # 7440-02-0, NICKEL, >75 %.

Federal Regulatory Information: ALL INGREDIENTS IN THIS PRODUCT ARE LISTED IN THE T.S.C.A. INVENTORY. THE FOLLOWING INGREDIENTS ARE ON THE COMMUNITY RIGHT-TO-KNOW : CAS # 7440-02-0, NICKEL.

State Regulatory Information: PROP 65 (CARCINOGEN): THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: CAS # 7440-02-0, NICKEL. PROP 65 (TETRATOGENIC): THIS PRODUCT CONTAINS NO CHEMICAL INGREDIENT

KNOWN TO THE STATE OF

CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. PROP 65 (BOTH CARCINOGEN AND TETRATOGENIC): THIS PRODUCT DOES NOT CONTAIN A CHEMICAL INGREDIENT KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BOTH CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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